

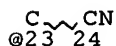
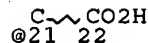
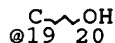
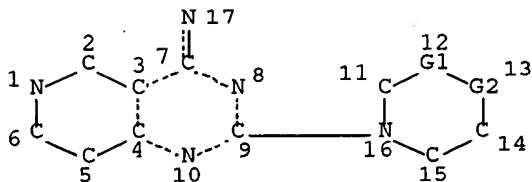
=> d his ful 11-12; d que stat 13; d his full 14-

(FILE 'REGISTRY' ENTERED AT 08:36:40 ON 07 DEC 2006)

DEL HIS Y
ACT JAISLE750/A

L1 STR
L2 STR

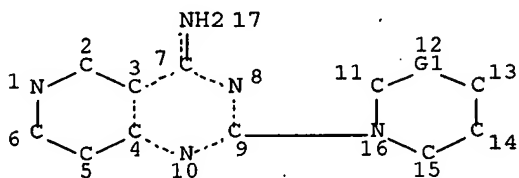
L1 STR



REP G1=(0-2) C
VAR G2=CH/19/21/23
NODE ATTRIBUTES:
NSPEC IS RC AT 17
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L2 STR



REP G1=(0-2) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
L3 657 SEA FILE=REGISTRY SSS FUL L1 NOT L2

100.0% PROCESSED 3840 ITERATIONS
 SEARCH TIME: 00.00.01

657 ANSWERS

FILE 'CAPLUS' ENTERED AT 09:23:50 ON 07 DEC 2006

L4 4 SEA ABB=ON PLU=ON L3
 D SCAN TI
 D SAVE

FILE 'HCAPLUS' ENTERED AT 09:35:48 ON 07 DEC 2006

E HITOSHI A/AU
 E ARAI H/AU
 L5 233 SEA ABB=ON PLU=ON ("ARAI H"/AU OR "ARAI H KOHNO"/AU OR "ARAI
 H P"/AU)
 E ARAI HITOSHI/AU
 L6 194 SEA ABB=ON PLU=ON "ARAI HITOSHI"/AU
 E MATSUMURA T/AU
 L7 296 SEA ABB=ON PLU=ON ("MATSUMURA T"/AU OR "MATSUMURA T MATSUMURA
 T"/AU)
 E MATSUMURA TSUTOMU/AU
 L8 18 SEA ABB=ON PLU=ON "MATSUMURA TSUTOMU"/AU
 E ISHIDA H/AU
 L9 444 SEA ABB=ON PLU=ON "ISHIDA H"/AU
 E ISHIDA HIROSHI/AU
 L10 500 SEA ABB=ON PLU=ON "ISHIDA HIROSHI"/AU
 E YAMAURA Y/AU
 L11 7 SEA ABB=ON PLU=ON "YAMAURA Y"/AU
 L12 8 SEA ABB=ON PLU=ON ("YAMAURA YOSUKE"/AU OR "YAMAURA YOUSUKE"/A
 U)
 E ARATAKE S/AU
 L13 8 SEA ABB=ON PLU=ON "ARATAKE SEIJI"/AU
 E OHSHIMA E/AU
 L14 70 SEA ABB=ON PLU=ON "OHSHIMA ETSUO"/AU
 L15 21 SEA ABB=ON PLU=ON "OHSHIMA E"/AU
 E YANAGAWA K/AU
 L16 5 SEA ABB=ON PLU=ON "YANAGAWA K"/AU
 E YANAGAWA KOJI/AU
 L17 22 SEA ABB=ON PLU=ON "YANAGAWA KOJI"/AU
 E MIYAMA M/AU
 L18 43 SEA ABB=ON PLU=ON "MIYAMA M"/AU
 E MIYAMA MOTOKI/AU
 L19 4 SEA ABB=ON PLU=ON "MIYAMA MOTOKI"/AU
 E SUZUKI K/AU
 L20 2544 SEA ABB=ON PLU=ON "SUZUKI K"/AU
 E SUZUKI KOJI/AU
 L21 1112 SEA ABB=ON PLU=ON "SUZUKI KOJI"/AU
 E KAWABE A/AU
 L22 18 SEA ABB=ON PLU=ON ("KAWABE A"/AU OR "KAWABE A B"/AU) OR
 "KAWABE ARI"/AU
 E NAKANISHI S/AU
 L23 149 SEA ABB=ON PLU=ON "NAKANISHI S"/AU
 E NAKANISHI SATOSHI/AU
 L24 109 SEA ABB=ON PLU=ON "NAKANISHI SATOSHI"/AU
 E KOBAYASHI K/AU
 L25 1703 SEA ABB=ON PLU=ON "KOBAYASHI K"/AU
 L26 111 SEA ABB=ON PLU=ON ("KOBAYASHI K F"/AU OR "KOBAYASHI K
 FUKAMI"/AU OR "KOBAYASHI K I"/AU OR "KOBAYASHI K I I"/AU OR
 "KOBAYASHI K K"/AU OR "KOBAYASHI K L I"/AU OR "KOBAYASHI K L
 K"/AU OR "KOBAYASHI K P"/AU OR "KOBAYASHI K W"/AU)

Cecilia Jaisle 10/516,750

E KOBAYASHI KATSUYA/AU
L27 58 SEA ABB=ON PLU=ON "KOBAYASHI KATSUYA"/AU
E SATO T/AU
L28 2176 SEA ABB=ON PLU=ON ("SATO T"/AU OR "SATO T A"/AU OR "SATO T
J"/AU OR "SATO T K"/AU OR "SATO T M"/AU OR "SATO T N"/AU OR
"SATO T O"/AU OR "SATO T R"/AU OR "SATO T SHUN"/AU)
E SATO TAKASHI/AU
L29 1705 SEA ABB=ON PLU=ON "SATO TAKASHI"/AU
L30 6 SEA ABB=ON PLU=ON ("SATO TAKASHI J"/AU OR "SATO TAKASHI
R"/AU OR "SATO TAKASHI WATARU"/AU)
E MIKI I/AU
L31 8 SEA ABB=ON PLU=ON "MIKI I"/AU
L32 78 SEA ABB=ON PLU=ON "MIKI ICHIRO"/AU
E UENO K/AU
L33 710 SEA ABB=ON PLU=ON ("UENO K"/AU OR "UENO K I"/AU)
E UENO KIMIHISA /AU
L34 22 SEA ABB=ON PLU=ON "UENO KIMIHISA"/AU
E FUJII S/AU
L35 315 SEA ABB=ON PLU=ON "FUJII S"/AU
E FUJII SHINYA/AU
L36 33 SEA ABB=ON PLU=ON "FUJII SHINYA"/AU
E IWASE M/AU
L37 195 SEA ABB=ON PLU=ON "IWASE M"/AU
E IWASE MIHO/AU
L38 10 SEA ABB=ON PLU=ON "IWASE MIHO"/AU
L39 12648 SEA ABB=ON PLU=ON (L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11
OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20
OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29
OR L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37 OR
L38)
L40 4 SEA ABB=ON PLU=ON L3
L41 2 SEA ABB=ON PLU=ON L40 AND L39
L42 2 SEA ABB=ON PLU=ON L40 NOT L41
D SCAN
D SCAN L40
SELECT RN HIT L40 1-4

FILE 'REGISTRY' ENTERED AT 09:46:56 ON 07 DEC 2006

L43 650 SEA ABB=ON PLU=ON (635693-33-3/BI OR 635743-16-7/BI OR
635743-17-8/BI OR 635743-18-9/BI OR 635743-27-0/BI OR 635743-29
-2/BI OR 635743-49-6/BI OR 7128-30-5/BI OR 7128-31-6/BI OR
7128-34-9/BI OR 7128-37-2/BI OR 7128-38-3/BI OR 7128-46-3/BI
OR 7128-49-6/BI OR 7128-50-9/BI OR 7131-72-8/BI OR 7131-73-9/BI
OR 7131-77-3/BI OR 7131-80-8/BI OR 7131-83-1/BI OR 7131-85-3/B
I OR 7131-86-4/BI OR 7131-88-6/BI OR 7131-90-0/BI OR 7183-75-7/
BI OR 7212-03-5/BI OR 7212-05-7/BI OR 635688-23-2/BI OR
635688-24-3/BI OR 635688-25-4/BI OR 635688-26-5/BI OR 635693-34
-4/BI OR 635693-35-5/BI OR 635693-36-6/BI OR 635693-37-7/BI OR
635693-38-8/BI OR 635693-39-9/BI OR 635693-40-2/BI OR 635693-41
-3/BI OR 635693-42-4/BI OR 635693-43-5/BI OR 635693-44-6/BI OR
635693-45-7/BI OR 635693-46-8/BI OR 635693-47-9/BI OR 635693-48
-0/BI OR 635693-49-1/BI OR 635693-50-4/BI OR 635693-51-5/BI OR
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-2/BI OR 635693-83-3/BI OR 635693-84-4/BI OR 635698-60-1/BI OR
635698-62-3/BI OR 635699-36-4/BI OR 635699-42-2/BI OR 635699-44
-4/BI OR 635699-46-6/BI OR 635699-64-8/BI OR 635699-66-0/BI OR
635699-68-2/BI OR 635737-02-9/BI OR 635737-14-3/BI OR 635737-26
-7/BI OR 635737-38-1/BI OR 635737-50-7/BI OR 635737-62-1/BI OR

Cecilia Jaisle 10/516,750

635737-74-5/BI OR 635737-86-9/BI OR 635738-03-3/BI OR 635738-05-5/BI OR 635738-20-4/BI OR 635738-21-5/BI OR 635738-35-1/BI OR 635738-36-2/BI OR 635738-37-3/BI OR 635738-40-8/BI OR 635738-41-9/BI OR 635738-42-0/BI OR 635738-43-1/BI OR 635738-44-2/BI OR 635738-45-3/BI OR 635738-46-4/BI OR 635738-47-5/BI OR 635738-48-6/BI OR 635738-49-7/BI OR 635738-50-0/BI OR 635738-51-1/BI OR 635738-52-2/BI OR 635738-53-3/BI OR 635738-54-4/BI OR 635738-

L44

7 SEA ABB=ON PLU=ON L3 NOT L43

=> fil reg

FILE 'REGISTRY' ENTERED AT 09:49:06 ON 07 DEC 2006

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STRUCTURE FILE UPDATES: 6 DEC 2006 HIGHEST RN 914980-83-9

DICTIONARY FILE UPDATES: 6 DEC 2006 HIGHEST RN 914980-83-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

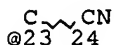
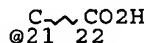
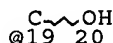
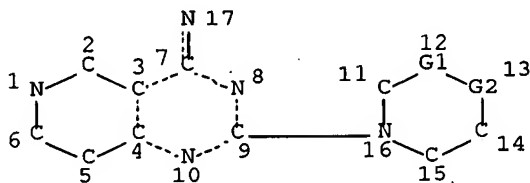
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que stat 14

L1 STR



REP G1=(0-2) C

VAR G2=CH/19/21/23

NODE ATTRIBUTES:

NSPEC IS RC AT 17

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

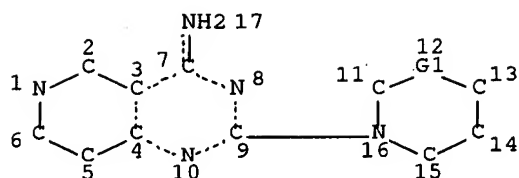
GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L2 STR



REP G1=(0-2) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
 L3 657 SEA FILE=REGISTRY SSS FUL L1 NOT L2
 L4 4 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> fil hcaplus
 FILE 'HCAPLUS' ENTERED AT 09:49:18 ON 07 DEC 2006
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FILE COVERS 1907 - 7 Dec 2006 VOL 145 ISS 24
 FILE LAST UPDATED: 5 Dec 2006 (20061205/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> => d que nos 141
 L1 STR
 L2 STR
 L3 657 SEA FILE=REGISTRY SSS FUL L1 NOT L2
 L5 233 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ARAI H"/AU OR "ARAI H KOHNO"/AU OR "ARAI H P"/AU)
 L6 194 SEA FILE=HCAPLUS ABB=ON PLU=ON "ARAI HITOSHI"/AU
 L7 296 SEA FILE=HCAPLUS ABB=ON PLU=ON ("MATSUMURA T"/AU OR "MATSUMUR A T MATSUMURA T"/AU)
 L8 18 SEA FILE=HCAPLUS ABB=ON PLU=ON "MATSUMURA TSUTOMU"/AU

Cecilia Jaisle 10/516,750

L9 444 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISHIDA H"/AU
L10 500 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISHIDA HIROSHI"/AU
L11 7 SEA FILE=HCAPLUS ABB=ON PLU=ON "YAMAURA Y"/AU
L12 8 SEA FILE=HCAPLUS ABB=ON PLU=ON ("YAMAURA YOSUKE"/AU OR
"YAMAURA YOUSUKE"/AU)
L13 8 SEA FILE=HCAPLUS ABB=ON PLU=ON "ARATAKE SEIJI"/AU
L14 70 SEA FILE=HCAPLUS ABB=ON PLU=ON "OHSHIMA ETSUO"/AU
L15 21 SEA FILE=HCAPLUS ABB=ON PLU=ON "OHSHIMA E"/AU
L16 5 SEA FILE=HCAPLUS ABB=ON PLU=ON "YANAGAWA K"/AU
L17 22 SEA FILE=HCAPLUS ABB=ON PLU=ON "YANAGAWA KOJI"/AU
L18 43 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIYAMA M"/AU
L19 4 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIYAMA MOTOKI"/AU
L20 2544 SEA FILE=HCAPLUS ABB=ON PLU=ON "SUZUKI K"/AU
L21 1112 SEA FILE=HCAPLUS ABB=ON PLU=ON "SUZUKI KOJI"/AU
L22 18 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KAWABE A"/AU OR "KAWABE A
B"/AU) OR "KAWABE ARI"/AU
L23 149 SEA FILE=HCAPLUS ABB=ON PLU=ON "NAKANISHI S"/AU
L24 109 SEA FILE=HCAPLUS ABB=ON PLU=ON "NAKANISHI SATOSHI"/AU
L25 1703 SEA FILE=HCAPLUS ABB=ON PLU=ON "KOBAYASHI K"/AU
L26 111 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KOBAYASHI K F"/AU OR
"KOBAYASHI K FUKAMI"/AU OR "KOBAYASHI K I"/AU OR "KOBAYASHI K
I I"/AU OR "KOBAYASHI K K"/AU OR "KOBAYASHI K L I"/AU OR
"KOBAYASHI K L K"/AU OR "KOBAYASHI K P"/AU OR "KOBAYASHI K
W"/AU)
L27 58 SEA FILE=HCAPLUS ABB=ON PLU=ON "KOBAYASHI KATSUYA"/AU
L28 2176 SEA FILE=HCAPLUS ABB=ON PLU=ON ("SATO T"/AU OR "SATO T A"/AU
OR "SATO T J"/AU OR "SATO T K"/AU OR "SATO T M"/AU OR "SATO T
N"/AU OR "SATO T O"/AU OR "SATO T R"/AU OR "SATO T SHUN"/AU)
L29 1705 SEA FILE=HCAPLUS ABB=ON PLU=ON "SATO TAKASHI"/AU
L30 6 SEA FILE=HCAPLUS ABB=ON PLU=ON ("SATO TAKASHI J"/AU OR "SATO
TAKASHI R"/AU OR "SATO TAKASHI WATARU"/AU)
L31 8 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIKI I"/AU
L32 78 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIKI ICHIRO"/AU
L33 710 SEA FILE=HCAPLUS ABB=ON PLU=ON ("UENO K"/AU OR "UENO K
I"/AU)
L34 22 SEA FILE=HCAPLUS ABB=ON PLU=ON "UENO KIMIHISA"/AU
L35 315 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUJII S"/AU
L36 33 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUJII SHINYA"/AU
L37 195 SEA FILE=HCAPLUS ABB=ON PLU=ON "IWASE M"/AU
L38 10 SEA FILE=HCAPLUS ABB=ON PLU=ON "IWASE MIHO"/AU
L39 12648 SEA FILE=HCAPLUS ABB=ON PLU=ON (L5 OR L6 OR L7 OR L8 OR L9
OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18
OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27
OR L28 OR L29 OR L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36
OR L37 OR L38)
L40 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
L41 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND L39

=> d que nos 142

L1 STR
L2 STR
L3 657 SEA FILE=REGISTRY SSS FUL L1 NOT L2
L5 233 SEA FILE=HCAPLUS ABB=ON PLU=ON ("ARAI H"/AU OR "ARAI H
KOHNO"/AU OR "ARAI H P"/AU)
L6 194 SEA FILE=HCAPLUS ABB=ON PLU=ON "ARAI HITOSHI"/AU
L7 296 SEA FILE=HCAPLUS ABB=ON PLU=ON ("MATSUMURA T"/AU OR "MATSUMUR
A T MATSUMURA T"/AU)
L8 18 SEA FILE=HCAPLUS ABB=ON PLU=ON "MATSUMURA TSUTOMU"/AU
L9 444 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISHIDA H"/AU

L10 500 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISHIDA HIROSHI"/AU
 L11 7 SEA FILE=HCAPLUS ABB=ON PLU=ON "YAMAURA Y"/AU
 L12 8 SEA FILE=HCAPLUS ABB=ON PLU=ON ("YAMAURA YOSUKE"/AU OR
 "YAMAURA YOUSUKE"/AU)
 L13 8 SEA FILE=HCAPLUS ABB=ON PLU=ON "ARATAKE SEIJI"/AU
 L14 70 SEA FILE=HCAPLUS ABB=ON PLU=ON "OHSHIMA ETSUO"/AU
 L15 21 SEA FILE=HCAPLUS ABB=ON PLU=ON "OHSHIMA E"/AU
 L16 5 SEA FILE=HCAPLUS ABB=ON PLU=ON "YANAGAWA K"/AU
 L17 22 SEA FILE=HCAPLUS ABB=ON PLU=ON "YANAGAWA KOJI"/AU
 L18 43 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIYAMA M"/AU
 L19 4 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIYAMA MOTOKI"/AU
 L20 2544 SEA FILE=HCAPLUS ABB=ON PLU=ON "SUZUKI K"/AU
 L21 1112 SEA FILE=HCAPLUS ABB=ON PLU=ON "SUZUKI KOJI"/AU
 L22 18 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KAWABE A"/AU OR "KAWABE A
 B"/AU) OR "KAWABE ARI"/AU
 L23 149 SEA FILE=HCAPLUS ABB=ON PLU=ON "NAKANISHI S"/AU
 L24 109 SEA FILE=HCAPLUS ABB=ON PLU=ON "NAKANISHI SATOSHI"/AU
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 L26 111 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KOBAYASHI K F"/AU OR
 "KOBAYASHI K FUKAMI"/AU OR "KOBAYASHI K I"/AU OR "KOBAYASHI K
 I I"/AU OR "KOBAYASHI K K"/AU OR "KOBAYASHI K L I"/AU OR
 "KOBAYASHI K L K"/AU OR "KOBAYASHI K P"/AU OR "KOBAYASHI K
 W"/AU)
 L27 58 SEA FILE=HCAPLUS ABB=ON PLU=ON "KOBAYASHI KATSUYA"/AU
 L28 2176 SEA FILE=HCAPLUS ABB=ON PLU=ON ("SATO T"/AU OR "SATO T A"/AU
 OR "SATO T J"/AU OR "SATO T K"/AU OR "SATO T M"/AU OR "SATO T
 N"/AU OR "SATO T O"/AU OR "SATO T R"/AU OR "SATO T SHUN"/AU)
 L29 1705 SEA FILE=HCAPLUS ABB=ON PLU=ON "SATO TAKASHI"/AU
 L30 6 SEA FILE=HCAPLUS ABB=ON PLU=ON ("SATO TAKASHI J"/AU OR "SATO
 TAKASHI R"/AU OR "SATO TAKASHI WATARU"/AU)
 L31 8 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIKI I"/AU
 L32 78 SEA FILE=HCAPLUS ABB=ON PLU=ON "MIKI ICHIRO"/AU
 L33 710 SEA FILE=HCAPLUS ABB=ON PLU=ON ("UENO K"/AU OR "UENO K
 I"/AU)
 L34 22 SEA FILE=HCAPLUS ABB=ON PLU=ON "UENO KIMIHISA"/AU
 L35 315 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUJII S"/AU
 L36 33 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUJII SHINYA"/AU
 L37 195 SEA FILE=HCAPLUS ABB=ON PLU=ON "IWASE M"/AU
 L38 10 SEA FILE=HCAPLUS ABB=ON PLU=ON "IWASE MIHO"/AU
 L39 12648 SEA FILE=HCAPLUS ABB=ON PLU=ON (L5 OR L6 OR L7 OR L8 OR L9
 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18
 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27
 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36
 OR L37 OR L38)
 L40 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
 L41 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 AND L39
 L42 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 NOT L41

=> d .ca l41 1-2; d .ca hitstr l42 1-2

L41 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:545534 HCAPLUS Full-text

DOCUMENT NUMBER: 143:59999

TITLE: Preparation of condensed pyrimidine derivatives which
control functions of CCL17 and CCL22, and their uses
as inflammation inhibitors etc.

INVENTOR(S): Aratake, Seiji; Ueno, Kimihisa;
Miki, Ichiro; Iwase, Miho;

PATENT ASSIGNEE(S): Muramatsu, Kozue; Yano, Hiroshi
 SOURCE: Kyowa Hakko Kogyo Co., Ltd., Japan
 Jpn. Kokai Tokkyo Koho, 54 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005162673	A2	20050623	JP 2003-404250	20031203
PRIORITY APPLN. INFO.:			JP 2003-404250	20031203
OTHER SOURCE(S):	MARPAT 143:59999			
ED	Entered STN: 24 Jun 2005			
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The derivs. are quaternary ammonium salts or their pharmacol. acceptable salts of I. [m, n = 1-3 and m + n ≤ 4; R4, R5 = H, (un)substituted lower alkyl, cycloalkyl, lower alkenyl, lower alkynyl, aralkyl, arylcarbonyl, heteroaryl, etc., NR4R5 may be heteroalicyclicyl, (un)substituted heteroalicyclicyl; R4 and/or R5 = substituent; if R4 or R5 = H, then the other ≠ (un)substituted pyrazol-3-yl, 1,2,4-triazol-3-yl; R2 = II, III; r = 0-4; s = number between 0 and maximum substitution number; G = N, CH, C(OH), C(CO2H), C(CN); if G = N, then q = 1, 2; if G = other atomic group, then q = 0-2; E = direct bond, O, CO, CH(OH), CH2CH(OH), CO2, CONR7 (R7 = H, optionally substituted alkyl, cycloalkyl); XA = halo, (un)substituted lower alkyl; 2 XA existing on the same C atom may represent oxo group; Xa = H, halo, (un)substituted lower alkyl; R6 = H, (un)substituted lower alkyl, cycloalkyl, (hetero)aryl, etc.; R10 = (un)substituted heteroaryl, heteroalicyclicyl, amino; Q = O, S, CH2, NR7; A = direct bond, SO2, OCO, OCS, SCO, SCS, etc.; if A = direct bond, then R3 = (un)substituted lower alkyl, alkenyl, aralkyl, aryl, etc.; if A = linking group, then R3 = (un)substituted lower alkyl, aryl, substituted amino, etc.]. Also claimed are pharmaceuticals, antiinflammatory agents, function controllers of TARC (thymus and activation-regulated chemokine/CCL17) and/or MDC (macrophage-derived chemokine/CCL22), and prophylactic and/or therapeutic agents for TARC and/or MDC-related diseases, T cell-related diseases, and allergic diseases containing the above derivs. Thus, 6-(2-chlorobenzenesulfonyl)-4-(2,4-difluorobenzylamino)-2-[4-(1-methylpiperidinio)piperidin-1-yl]-7,8-dihydro-5H-pyrido[4,3-d]pyrimidine iodide (IV; preparation given) showed 91% inhibition against binding of TARC to Hut78. Tablets containing IV were also formulated.

IC ICM C07D471-04

ICS A61K031-519; A61P003-10; A61P011-00; A61P011-06; A61P013-10;
 A61P015-00; A61P017-00; A61P017-04; A61P017-06; A61P019-02;
 A61P019-04; A61P025-04; A61P027-02; A61P027-16; A61P029-00;
 A61P031-04; A61P031-10; A61P035-00; A61P035-02

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 63

IT 854485-84-0P 854485-85-1P 854485-86-2P
 854485-87-3P 854485-88-4P 854485-89-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of condensed pyrimidine derivs. which control functions of

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CCL17 and CCL22, and their uses for treatment of T cell-related diseases, e.g. inflammation, allergy, etc.)

IT 135481-57-1P 635693-33-3P 635698-30-5P 635698-56-5P
635699-26-2P 635743-16-7P 635743-17-8P
635743-18-9P 635743-27-0P 635743-29-2P
635743-49-6P 778574-06-4P 854485-90-8P 854485-91-9P
854485-92-0P 854485-93-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of condensed pyrimidine derivs. which control functions of CCL17 and CCL22, and their uses for treatment of T cell-related diseases, e.g. inflammation, allergy, etc.)

L41 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:991510 HCAPLUS Full-text

DOCUMENT NUMBER: 140:42193

TITLE: Preparation of bicyclic pyrimidine derivatives as antiinflammatory agents for treatment of allergic diseases

INVENTOR(S): Arai, Hitoshi; Matsumura, Tsutomu;
Ishida, Hiroshi; Yamaura, Yosuke;
Aratake, Seiji; Ohshima, Etsuo;
Yanagawa, Koji; Miyama, Motoki;
Suzuki, Koji; Kawabe, Ari;
Nakanishi, Satoshi; Kobayashi, Katsuya
; Sato, Takashi; Miki, Ichiro;
Ueno, Kimihisa; Fujii, Shinya;
Iwase, Miho

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 467 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

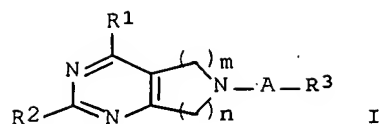
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104230	A1	20031218	WO 2003-JP7200	20030606
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003242252	A1	20031222	AU 2003-242252	20030606
EP 1552842	A1	20050713	EP 2003-733302	20030606
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			JP 2002-166504	A 20020607
			WO 2003-JP7200	W 20030606

OTHER SOURCE(S): MARPAT 140:42193

ED Entered STN: 21 Dec 2003

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AB The title compds. I [wherein m and n = independently 1-3; R1 = (un)substituted amino; R2 = -B-(CX₂)p-R₇, (un)substituted piperidiny, piperaziny, or amino; B = O CH=CH, C.tplbond.C, or phenylene; p = 1-4; X = H, halo, or (un)substituted alkyl; R₇ = (un)substituted amino; A = a single bond, CO, SO₂, OCO, OCS, SCO, SCS, (un)substituted NHCO, NHCS, or amino; R₃ = H, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, heterocyclyl, heteroarylalkyl, or heterocyclylalkyl, etc.] or quaternary ammonium salts, or pharmaceutically acceptable salts thereof are prepared I have an antiinflammatory effect and an effect of controlling the function(s) of TARC and/or MDC and, therefore, are usable in treating and/or preventing various diseases in which T cells participate, for example, allergic diseases, autoimmune diseases, rejection at transplantation, etc. (no data). Formulations containing I as an active ingredient were also described.

IC ICM C07D471-04

ICS A61K031-519; A61K031-5377; A61K031-55; A61P003-10; A61P011-02;
A61P011-06; A61P013-10; A61P007-00; A61P017-04; A61P017-06;
A61P019-02; A61P025-04; A61P027-14; A61P029-00; A61P031-10;
A61P031-14; A61P035-00; A61P035-02; A61P037-06

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 27, 63

IT	635687-73-9P	635687-74-0P	635687-75-1P	635687-76-2P	635687-77-3P
	635687-78-4P	635687-79-5P	635687-80-8P	635687-81-9P	635687-82-0P
	635687-83-1P	635687-84-2P	635687-85-3P	635687-86-4P	635687-87-5P
	635687-88-6P	635687-89-7P	635687-90-0P	635687-91-1P	635687-92-2P
	635687-93-3P	635687-94-4P	635687-95-5P	635687-96-6P	635687-97-7P
	635687-98-8P	635687-99-9P	635688-00-5P	635688-01-6P	635688-02-7P
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	635688-08-3P	635688-09-4P	635688-10-7P	635688-11-8P	635688-12-9P
	635688-13-0P	635688-14-1P	635688-15-2P	635688-16-3P	635688-17-4P
	635688-18-5P	635688-19-6P	635688-20-9P	635688-21-0P	635688-22-1P
	635688-23-2P	635688-24-3P	635688-25-4P		
	635688-26-5P	635688-27-6P	635688-28-7P	635688-29-8P	
	635688-31-2P	635688-33-4P	635688-35-6P	635688-36-7P	635688-37-8P
	635688-38-9P	635688-39-0P	635688-40-3P	635688-41-4P	635688-42-5P
	635688-43-6P	635688-44-7P	635688-45-8P	635688-46-9P	635688-47-0P
	635688-48-1P	635688-49-2P	635688-50-5P	635688-51-6P	635688-52-7P
	635688-53-8P	635688-54-9P	635688-55-0P	635688-56-1P	635688-57-2P
	635688-58-3P	635688-59-4P	635688-60-7P	635688-61-8P	635688-62-9P
	635688-63-0P	635688-64-1P	635688-65-2P	635688-66-3P	635688-67-4P
	635688-68-5P	635688-69-6P	635688-70-9P	635688-71-0P	635688-72-1P
	635688-73-2P	635688-74-3P	635688-75-4P	635688-76-5P	635688-77-6P
	635688-78-7P	635688-79-8P	635688-80-1P	635688-81-2P	635688-82-3P
	635688-83-4P	635688-84-5P	635688-85-6P	635688-86-7P	635688-87-8P
	635688-88-9P	635688-89-0P	635688-90-3P	635688-91-4P	635688-92-5P
	635688-93-6P	635688-94-7P	635688-95-8P	635688-96-9P	635688-97-0P
	635688-98-1P	635688-99-2P	635689-00-8P	635689-01-9P	635689-02-0P
	635689-03-1P	635689-04-2P	635689-05-3P	635689-06-4P	635689-07-5P
	635689-08-6P	635689-09-7P	635689-10-0P	635689-11-1P	635689-12-2P
	635689-13-3P	635689-14-4P	635689-15-5P	635689-16-6P	635689-17-7P
	635689-18-8P	635689-19-9P	635689-20-2P	635689-21-3P	635689-22-4P
	635689-23-5P	635689-24-6P	635689-25-7P	635689-26-8P	635689-27-9P
	635689-28-0P	635689-29-1P	635689-30-4P	635689-31-5P	635689-32-6P

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635689-33-7P	635689-34-8P	635689-35-9P	635689-36-0P	635689-37-1P
635689-38-2P	635689-39-3P	635689-40-6P	635689-41-7P	635689-42-8P
635689-43-9P	635689-44-0P	635689-46-2P	635689-48-4P	635689-50-8P
635689-52-0P	635689-53-1P	635689-54-2P	635689-55-3P	635689-56-4P
635689-57-5P	635689-58-6P	635689-59-7P	635689-60-0P	635689-62-2P
635689-63-3P	635689-64-4P	635689-65-5P	635689-66-6P	635689-67-7P
635689-68-8P	635689-69-9P	635689-70-2P	635689-71-3P	635689-72-4P
635689-73-5P	635689-74-6P	635689-75-7P	635689-76-8P	635689-77-9P
635689-78-0P	635689-79-1P	635689-80-4P	635689-81-5P	635689-82-6P
635689-83-7P	635689-84-8P	635689-85-9P	635689-86-0P	635689-87-1P
635689-88-2P	635689-89-3P	635689-90-6P	635689-91-7P	635689-92-8P
635689-93-9P	635689-94-0P	635689-95-1P	635689-96-2P	635689-97-3P
635689-98-4P	635689-99-5P	635690-00-5P	635690-01-6P	635690-02-7P
635690-03-8P	635690-04-9P	635690-05-0P	635690-06-1P	635690-07-2P
635690-08-3P	635690-09-4P	635690-10-7P	635690-11-8P	635690-12-9P
635690-13-0P	635690-14-1P			

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as antiinflammatory agents for treatment of allergic diseases)

IT	635692-53-4P	635692-54-5P	635692-55-6P	635692-56-7P	635692-57-8P
	635692-58-9P	635692-59-0P	635692-60-3P	635692-61-4P	635692-62-5P
	635692-63-6P	635692-64-7P	635692-65-8P	635692-66-9P	635692-67-0P
	635692-68-1P	635692-69-2P	635692-70-5P	635692-71-6P	635692-72-7P
	635692-73-8P	635692-74-9P	635692-75-0P	635692-76-1P	635692-77-2P
	635692-78-3P	635692-79-4P	635692-80-7P	635692-81-8P	635692-82-9P
	635692-83-0P	635692-84-1P	635692-85-2P	635692-86-3P	635692-87-4P
	635692-88-5P	635692-89-6P	635692-90-9P	635692-91-0P	635692-92-1P
	635692-94-3P	635692-96-5P	635692-97-6P	635692-99-8P	635693-01-5P
	635693-03-7P	635693-04-8P	635693-05-9P	635693-06-0P	635693-07-1P
	635693-08-2P	635693-09-3P	635693-10-6P	635693-11-7P	635693-12-8P
	635693-13-9P	635693-14-0P	635693-15-1P	635693-16-2P	635693-17-3P
	635693-18-4P	635693-19-5P	635693-20-8P	635693-21-9P	635693-22-0P
	635693-23-1P	635693-24-2P	635693-25-3P	635693-26-4P	635693-27-5P
	635693-28-6P	635693-29-7P	635693-30-0P	635693-31-1P	635693-32-2P
	635693-33-3P	635693-34-4P	635693-35-5P		
	635693-36-6P	635693-37-7P	635693-38-8P		
	635693-39-9P	635693-40-2P	635693-41-3P		
	635693-42-4P	635693-43-5P	635693-44-6P		
	635693-45-7P	635693-46-8P	635693-47-9P		
	635693-48-0P	635693-49-1P	635693-50-4P		
	635693-51-5P	635693-52-6P	635693-53-7P		
	635693-54-8P	635693-55-9P	635693-56-0P		
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	635693-60-6P	635693-61-7P	635693-62-8P	635693-63-9P	
	635693-64-0P	635693-65-1P	635693-66-2P	635693-67-3P	635693-68-4P
	635693-69-5P	635693-70-8P	635693-71-9P	635693-72-0P	635693-73-1P
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	635694-35-8P	635694-36-9P	635694-37-0P	635694-38-1P	635694-39-2P

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635694-40-5P	635694-41-6P	635694-42-7P	635694-43-8P	635694-44-9P
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635694-50-7P	635694-51-8P	635694-52-9P	635694-53-0P	635694-54-1P
635694-55-2P	635694-56-3P	635694-57-4P	635694-58-5P	635694-59-6P
635694-60-9P	635694-61-0P	635694-62-1P	635694-63-2P	635694-64-3P
635694-65-4P	635694-66-5P	635694-67-6P	635694-68-7P	635694-69-8P
635694-70-1P	635694-71-2P	635694-72-3P	635694-73-4P	635694-74-5P
635694-75-6P	635694-79-0P	635694-80-3P	635694-81-4P	635694-82-5P
635694-83-6P	635694-84-7P	635694-85-8P	635694-86-9P	635694-87-0P
635694-88-1P	635694-89-2P	635694-90-5P	635694-91-6P	635694-92-7P
635694-93-8P	635694-94-9P	635694-97-2P	635695-00-0P	635695-02-2P
635695-05-5P	635695-08-8P	635695-11-3P	635695-14-6P	635695-17-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as antiinflammatory agents for treatment of allergic diseases)

IT	635734-77-9P	635734-78-0P	635734-79-1P	635734-80-4P	635734-81-5P
	635734-82-6P	635734-83-7P	635734-84-8P	635734-85-9P	635734-86-0P
	635734-87-1P	635734-88-2P	635734-89-3P	635734-90-6P	635734-91-7P
	635734-92-8P	635734-93-9P	635734-94-0P	635734-95-1P	635734-96-2P
	635734-97-3P	635734-99-5P	635735-00-1P	635735-01-2P	635735-02-3P
	635735-03-4P	635735-04-5P	635735-05-6P	635735-06-7P	635735-07-8P
	635735-08-9P	635735-09-0P	635735-10-3P	635735-11-4P	635735-12-5P
	635735-13-6P	635735-14-7P	635735-15-8P	635735-16-9P	635735-17-0P
	635735-18-1P	635735-19-2P	635735-20-5P	635735-21-6P	635735-22-7P
	635735-23-8P	635735-24-9P	635735-25-0P	635735-26-1P	635735-27-2P
	635735-28-3P	635735-29-4P	635735-30-7P	635735-31-8P	635735-32-9P
	635735-33-0P	635735-34-1P	635735-35-2P	635735-36-3P	635735-37-4P
	635735-38-5P	635735-39-6P	635735-40-9P	635735-41-0P	635735-42-1P
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	635735-88-5P	635735-89-6P	635735-90-9P	635735-91-0P	635735-94-3P
	635735-97-6P	635735-98-7P	635735-99-8P	635736-00-4P	635736-01-5P
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	635736-21-9P	635736-22-0P	635736-23-1P	635736-24-2P	635736-25-3P
	635736-26-4P	635736-27-5P	635736-28-6P	635736-29-7P	635736-30-0P
	635736-31-1P	635736-32-2P	635736-33-3P	635736-34-4P	635736-35-5P
	635736-36-6P	635736-37-7P	635736-38-8P	635736-39-9P	635736-40-2P
	635736-41-3P	635736-42-4P	635736-43-5P	635736-44-6P	635736-45-7P
	635736-46-8P	635736-47-9P	635736-48-0P	635736-49-1P	635736-50-4P
	635736-51-5P	635736-52-6P	635736-54-8P	635736-56-0P	635736-57-1P
	635736-58-2P	635736-59-3P	635736-60-6P	635736-61-7P	635736-62-8P
	635736-63-9P	635736-64-0P	635736-65-1P	635736-66-2P	635736-67-3P
	635736-68-4P	635736-69-5P	635736-70-8P	635736-71-9P	635736-72-0P
	635736-73-1P	635736-74-2P	635736-75-3P	635736-76-4P	635736-77-5P
	635736-78-6P	635736-79-7P	635736-80-0P	635736-81-1P	635736-82-2P
	635736-83-3P	635736-84-4P	635736-85-5P	635736-86-6P	635736-87-7P
	635736-88-8P	635736-89-9P	635736-90-2P	635736-91-3P	635736-92-4P
	635736-93-5P	635736-94-6P	635736-95-7P	635736-96-8P	635736-97-9P
	635736-98-0P	635736-99-1P	635737-00-7P	635737-01-8P	

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635737-02-9P 635737-03-0P 635737-04-1P 635737-05-2P
 635737-06-3P 635737-07-4P 635737-08-5P 635737-09-6P 635737-10-9P
 635737-11-0P 635737-12-1P 635737-13-2P **635737-14-3P**
 635737-15-4P 635737-16-5P 635737-17-6P 635737-18-7P 635737-19-8P
 635737-20-1P 635737-21-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as
 antiinflammatory agents for treatment of allergic diseases)

IT 635737-22-3P 635737-23-4P 635737-24-5P 635737-25-6P
635737-26-7P 635737-27-8P 635737-28-9P 635737-29-0P
 635737-30-3P 635737-31-4P 635737-32-5P 635737-33-6P 635737-34-7P
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 635737-49-4P **635737-50-7P** 635737-51-8P 635737-52-9P
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 635737-85-8P **635737-86-9P** 635737-87-0P 635737-88-1P
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635738-03-3P 635738-04-4P **635738-05-5P** 635738-06-6P
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 635738-17-9P 635738-18-0P 635738-19-1P **635738-20-4P**
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635738-35-1P **635738-36-2P** **635738-37-3P**
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635738-42-0P **635738-43-1P** **635738-44-2P**
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635738-48-6P **635738-49-7P** **635738-50-0P**
635738-51-1P **635738-52-2P** **635738-53-3P**
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635738-57-7P **635738-58-8P** **635738-59-9P**
635738-60-2P **635738-61-3P** **635738-62-4P**
635738-63-5P **635738-64-6P** **635738-65-7P**
635738-66-8P **635738-67-9P** **635738-68-0P**
635738-69-1P **635738-70-4P** **635738-71-5P**
635738-72-6P **635738-73-7P** **635738-74-8P**
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635738-78-2P **635738-79-3P** **635738-81-7P**
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635738-85-1P **635738-86-2P** **635738-87-3P**
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635738-97-5P **635738-98-6P** **635738-99-7P**
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635739-03-6P **635739-04-7P** **635739-05-8P**
635739-06-9P **635739-07-0P** **635739-08-1P**
635739-09-2P **635739-10-5P** **635739-11-6P**

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 635739-54-7P 635739-55-8P 635739-56-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as
 antiinflammatory agents for treatment of allergic diseases)

IT

635739-57-0P 635739-58-1P 635739-59-2P
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 635741-88-7P 635741-89-8P 635741-90-1P
 635741-91-2P 635741-92-3P 635741-93-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as
 antiinflammatory agents for treatment of allergic diseases)

IT

635741-94-5P 635741-95-6P 635741-96-7P
 635741-97-8P 635741-98-9P 635741-99-0P
 635742-00-6P 635742-01-7P 635742-02-8P
 635742-03-9P 635742-04-0P 635742-05-1P
 635742-06-2P 635742-07-3P 635742-08-4P
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 635742-18-6P 635742-19-7P 635742-20-0P
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 635742-27-7P 635742-28-8P 635742-29-9P
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 635742-42-6P 635742-43-7P 635742-44-8P

635742-45-9P 635742-46-0P 635742-47-1P
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 635744-20-6P 635744-21-7P 635744-22-8P 635744-23-9P
 635744-24-0P 635744-25-1P 635744-26-2P 635744-28-4P 635744-29-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as
 antiinflammatory agents for treatment of allergic diseases)

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IT 635749-03-0P 635749-04-1P 635749-05-2P 635749-06-3P 635749-07-4P
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635750-37-7P 635750-38-8P 635750-39-9P 635750-40-2P 635750-41-3P
635750-42-4P 635750-43-5P 635750-44-6P 635750-45-7P 635750-46-8P
635750-47-9P 635750-48-0P 635750-49-1P 635750-50-4P 635750-51-5P
635750-52-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(drug candidate; preparation of bicyclic pyrimidine derivs. as
antiinflammatory agents for treatment of allergic diseases)

IT 795-18-6P 1027-35-6P 19673-12-2P 62459-02-3P 128208-00-4P
135481-57-1P 202991-96-6P 401811-97-0P 401811-98-1P 635698-28-1P
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635699-23-9P 635699-26-2P 635699-28-4P 635699-30-8P 635699-32-0P
635699-34-2P **635699-36-4P** 635699-38-6P 635699-40-0P
635699-42-2P 635699-44-4P 635699-46-6P
635699-48-8P 635699-50-2P 635699-52-4P 635699-54-6P 635699-56-8P
635699-58-0P 635699-60-4P 635699-62-6P **635699-64-8P**
635699-66-0P 635699-68-2P 635699-70-6P 635699-72-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(intermediate; preparation of bicyclic pyrimidine derivs. as
antiinflammatory agents for treatment of allergic diseases)

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

L42 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1966:420874 HCAPLUS Full-text
 DOCUMENT NUMBER: 65:20874
 ORIGINAL REFERENCE NO.: 65:3888h,3889a-h,3890a
 TITLE: 4-Amino-5,6,7,8-tetrahydropyrido [4,3-d] pyrimidine
 substitution products
 INVENTOR(S): Ohnacker, Gerhard
 PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.
 SOURCE: 15 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 3248395		19660426	US 1963-265059	19630314
PRIORITY APPLN. INFO.:			DE	19620322

ED Entered STN: 22 Apr 2001

AB The title compds. were prepared by treatment of a suitable 3-cyanopiperidine with an amidine or an acid addition salt thereof or by treatment of a suitable tetrahydropyrido[4,3-d]pyrimidine with an amine. The compds. may possess antiphlogistic, antipyretic, diuretic, bacteriostatic, sedative, and coronary dilating properties. Thus, 5.5 g. 2,6,8-trimethyl- 4 - chloro - 5,6,7,8 - tetrahydropyrido [4,3 - d] pyrimidine heated 24 hrs. at 100° in a V4A-stainless steel autoclave with 100 cc. methanolic 14% NH₃ solution, the MeOH evaporated in vacuo, the residue taken up in H₂O, and the aqueous solution extracted several times with CHCl₃ gave 2 g. 2,6,8-trimethyl-4-amino- 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine, m. 186-7° (EtOAc). Similarly were prepared the following 2-phenyl-4-amino-6-R-substituted- 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidines (R and m.p. given): Me₂NCH₂CH₂CH₂, 135-6°; Me₂NCH₂CH₂, 131-3°; Et₂NCH₂CH₂CH₂, 117-18°. 2-Benzyl-4-chloro-6,8-dimethyl-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine (8 g.) refluxed 22 hrs. with 13 g. morpholine, unreacted morpholine evaporated in vacuo, the residue taken up in H₂O, and the aqueous solution extracted 3 times with Et₂O gave 5 g. 2-benzyl-4-morpholino-6,8-dimethyl-5,6,7,8-tetrahydropyrido[4,3- d]pyrimidine, m. 93-4° (aqueous 50% EtOH). Similarly were prepared the following substituted 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidines (substituents and m.p. given): 2-phenyl-4-morpholino-6-benzyl-8-methyl, 114-15° (oxalate m. 145°); 2-(N₄-methylpiperazino)-4- hydrazino-6-benzyl, 236-7°; 2-(N₄methylpiperazino)-4-hexylamino-6- benzyl, 75-6°; 2-(N₄-methylpiperazino)-4-hexylamino-6- β-phenylethyl, 147-8°; 2-morpholino-4-pyrrolidino-6-methyl, 137°; 2-(N₄-methylpiperazino)4-pyrrolidino-6-propyl, 99-102°; 2,4-dipyrrolidino-6-propyl, 88-90°; 2-piperidino-4-pyrrolidino-6-propyl, 78-80°; 2-morpholino-4-pyrrolidino-6-propyl, 99-102°; 2-hexylamino-4-pyrrolidino-6-butyl, 80°; 2-(N₄-methylpiperazino)-4-pyrrolidino-6-butyl, 87°; 2,4-dipyrrolidino-6-butyl, 78°; 2-hexylamino-4-pyrrolidino-6- isobutyl, 101-2°; 2-(dibutylamino)-4-pyrrolidino-6-isobutyl, 49-50°; 2-(N₄-methylpiperazino)-4-pyrrolidino-6-isobutyl, m. 112-14°; 2,4-dipyrrolidino-6-isobutyl, 96°; 2-piperidino-4-pyrrolidino-6-isobutyl, 116°; 2-morpholino-4- pyrrolidino-6-isobutyl, 120-1°; 2-(N₄ methylpiperazino)-4- pyrrolidino-6-phenyl, 112-13°; 2-morpholino-4-pyrrolidino-6-phenyl, 153°; 2-(dibutylamino)-4-pyrrolidino-6-benzyl, 72-3°; 2-anilino-4-pyrrolidino-6-benzyl, 178-9°; 2-(N₄-methylpiperazino)-4-pyrrolidino-6-benzyl, 154°; 2,4-dipyrrolidino-6-benzyl, 135-7°; 2-morpholino-4-piperidino-6-methyl, 119°; 2,4-dipiperidino-6-ethyl, 87-9°; 2-morpholino-4-

piperidino-6-ethyl, 104°; 2-(N4-methylpiperazino)-4-piperidino-6-propyl, 122-4°; 2-pyrrolidino-4-piperidino-6-propyl, 84-7°; 2,4-dipiperidino-6-propyl, 100-2°; 2-morpholino-4-piperidino-6-propyl, 101-2°; 2-(N4-methylpiperazino)-4-piperidino-6-butyl, 70-1°; 2-pyrrolidino-4-piperidino-6-butyl, 82°; 2,4-dipiperidino-6-butyl, 67-8°; 2-morpholino-4-piperidino-6-butyl, 105°; 2-(N4-methylpiperazino)-4-piperidino-6-isobutyl, 105-6° (bismaleinate salt m. 187-9°); 2-pyrrolidino-4-piperidino-6-isobutyl, 102-3°; 2-morpholino-4-piperidino-6-isobutyl, 123°; 2-(N4-methylpiperazino)-4-piperidino-6-phenyl, 82°; 2,4-dipiperidino-6-phenyl, 118°; 2-morpholino-4-piperidino-6-phenyl, 132°; 2-anilino-4-piperidino-6-benzyl, 149-51°; 2-(N4-methylpiperazino)-4-piperidino-6-benzyl, 152°; 2,4-dipiperidino-6-benzyl, 122-3°; 2-morpholino-4-piperidino-6-benzyl, 139°; 2-morpholino-4-piperidino-6-(β -phenylethyl), 139°; 2-morpholino-4-piperidino-6-(γ -dimethylaminopropyl), 92-3°; 2,4-dimorpholino-6-propyl, 116-18°; 2-piperidino-4-morpholino-6-isopropyl, 117-18°; 2-(N4-methylpiperazino)-4-morpholino-6-isobutyl, 125-6°; 2-(N4-methylpiperazino)-4-morpholino-6-benzyl, 129°; 2-pyrrolidino-4-morpholino-6-benzyl, 132-3°; 2-piperidino-4-morpholino-6-benzyl, 176°; 2,4-dimorpholino-6-benzyl, 148°; 2,4-bis(N4-methylpiperazino)-6-butyl, 87-90°; 2-piperidino-4-(N4-methylpiperazino)-6-butyl, 72-3°; 2-morpholino-4-(N4-methylpiperazino)-6-butyl, 97°; 2,4-bis(N4-methylpiperazino)-6-isobutyl, 84-5°; 2-pyrrolidino-4-(N4-methylpiperazino)-6-isobutyl, 70-1°; 2-morpholino-4-(N4-methylpiperazino)-6-isobutyl, 149-50°; 2,4-bis(N4-methylpiperazino)-6-phenyl, 139°; 2-piperidino-4-(N4-methylpiperazino)-6-phenyl, 132°; 2-morpholino-4-(N4-methylpiperazino)-6-phenyl, 149°; 2,4-bis(N4-methylpiperazino)-6-benzyl, 118-20°; 2-pyrrolidino-4-(N4-methylpiperazino)-6-benzyl, 127-8°; 2-morpholino-4-(N4-methylpiperazino)-6-benzyl, 164-5°; 2-morpholino-4-(N4-methylpiperazino)-6-(β -phenylethyl), 122-4°; 2-amino-4-piperidino-6,8-dimethyl, 117-18°; 2-butyl-4-piperidino-6-propyl, - (diHCl salt m. 130°); 2-methyl-4-morpholino-6-allyl, 99-100°; 2-(dibutylamino)-4-hexylamino-6-isobutyl, - (monomaleinate salt m. 164-5°); 2-(dibutylamino)-4-pyrrolidino-6-propyl, 70°; 2-(dibutylamino)-4-pyrrolidino-6-butyl, - (monomaleinate salt m. 154-5°); 2-(dibutylamino)-4-pyrrolidino-6-hexyl, - (monomaleinate salt m. 148-9°); 2-(dibutylamino)-4-pyrrolidino-6-(β -phenylethyl), - (monomaleinate salt m. 143-4°); 2-(dibutylamino)-4-piperidino-6-butyl, - (monomaleinate salt m. 165-6°); 2,4-dimorpholino-6-allyl, 121-2°; 2-dimethylamino-4-pyrrolidino-6-allyl, 99-100°; 2-dimethylamino-4-pyrrolidino-6-butyl, 149-50°; 2-dimethylamino-4-piperidino-6-butyl, 72-3°; 2-(dibutylamino)-4-pyrrolidino-6-isobutyl-8-methyl, 53-5°; 2-methyl-4-pyrrolidino-6-(β -phenylethyl), 119-21°; 2-propyl-4-pyrrolidino-6-(β -phenylethyl), 92-4°; 2-butyl-4-piperidino-6-(β -phenylethyl), 85°; 2-(dimethylamino)-4-pyrrolidino-6-(β -phenylethyl), 112-14°. Na (2.3 g.) in 50 cc. absolute EtOH kept 0.5 hr. with 9.6 g. guanidine-HCl in 100 cc. absolute EtOH, the precipitate filtered off, the filtrate evaporated in vacuo at room temperature, 1.5 g. 1-(β -phenylethyl)-3-cyano-4-aminopiperidine added, the mixture heated 2 hrs. to 140°, 100 cc. 2N HCl added, the mixture filtered, and the filtrate made alkaline with NaOH gave 0.7 g. 2,4-diamino-6-(β -phenylethyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine, m. 183° (MeOH).

INCL 260246000

CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))

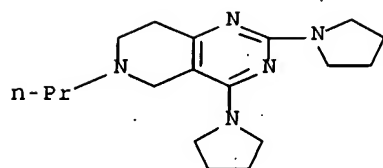
IT 3569-32-2, Pyrimidine, 2-[(3,4-dichlorobenzyl)thio]-4,6-dimethyl-
 3569-34-4, Pyrimidine, 2-[(p-chlorobenzyl)thio]-4,6-dimethyl- 3613-70-5,
 Pyrimidine, 2-(benzylthio)-4,6-dimethyl- 6616-85-9, Pyrimidine,
 4,6-dimethyl-2-[(3-phenoxypropyl)thio]- 7128-25-8, Pyrido[4,3-
 d]pyrimidine, 2-benzyl-5,6,7,8-tetrahydro-6,8-dimethyl-4-morpholino-
 7128-26-9, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-8-methyl-4-
 morpholino-2-phenyl- 7128-27-0, Pyrido[4,3-d]pyrimidine,
 6-benzyl-4-hydrazino-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-
 7128-28-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-methyl-2-
 morpholino-4-(1-pyrrolidinyl)- 7128-29-2, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl-6-propyl-4-(1-pyrrolidinyl)-

7128-30-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-
 2,4-di-1-pyrrolidinyl- 7128-31-6, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-pyrrolidinyl)- 7128-32-7,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-propyl-4-(1-
 pyrrolidinyl)- 7128-33-8, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-
 tetrahydro-2-(4-methyl-1-piperazinyl)-4-(1-pyrrolidinyl)-
 7128-34-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-
 di-1-pyrrolidinyl- 7128-35-0, Pyrido[4,3-d]pyrimidine,
 2-(dibutylamino)-5,6,7,8-tetrahydro-6-isobutyl-4-(1-pyrrolidinyl)-
 7128-36-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-
 methyl-1-piperazinyl)-4-(1-pyrrolidinyl)- 7128-37-2,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-
 pyrrolidinyl- 7128-38-3, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)-
 7128-39-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-
 morpholino-4-(1-pyrrolidinyl)- 7128-40-7, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-phenyl-4-(1-pyrrolidinyl)-
 7128-41-8, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-
 phenyl-4-(1-pyrrolidinyl)- 7128-42-9, Pyrido[4,3-d]pyrimidine,
 6-benzyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)-
 7128-43-0, Pyrido[4,3-d]pyrimidine, 2-anilino-6-benzyl-5,6,7,8-tetrahydro-
 4-(1-pyrrolidinyl)- 7128-44-1, Pyrido[4,3-d]pyrimidine,
 6-benzyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-(1-pyrrolidinyl)-
 7128-45-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-methyl-2-
 morpholino-4-piperidino- 7128-46-3, Pyrido[4,3-d]pyrimidine,
 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7128-47-4,
 Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2-morpholino-4-
 piperidino- 7128-48-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-
 methyl-1-piperazinyl)-4-piperidino-6-propyl- 7128-49-6,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-
 pyrrolidinyl)- 7128-50-9, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl- 7131-69-3,
 Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-4-(hexylamino)-5,6,7,8-
 tetrahydro-6-isobutyl- 7131-70-6, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2-morpholino-4-piperidino-6-propyl- 7131-71-7,
 Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2-(4-methyl-1-
 piperazinyl)-4-piperidino- 7131-72-8, Pyrido[4,3-d]pyrimidine,
 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-pyrrolidinyl)-
 7131-73-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-
 dipiperidino- 7131-74-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-
 isobutyl-2-(4-methyl-1-piperazinyl)-4-piperidino-, maleate (1:2)
 7131-76-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-methyl-1-
 piperazinyl)-6-phenyl-4-piperidino- 7131-77-3,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenyl-2,4-dipiperidino-
 7131-78-4, Pyrido[4,3-d]pyrimidine, 2-anilino-6-benzyl-5,6,7,8-tetrahydro-
 4-piperidino- 7131-79-5, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-
 tetrahydro-2-(4-methyl-1-piperazinyl)-4-piperidino- 7131-80-8,
 Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
 7131-81-9, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-
 phenethyl-4-piperidino- 7131-82-0, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2,4-dimorpholino-6-propyl- 7131-83-1,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-
 piperidino- 7131-84-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-
 isobutyl-2-(4-methyl-1-piperazinyl)-4-morpholino- 7131-85-3,
 Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-(1-
 pyrrolidinyl)- 7131-86-4, Pyrido[4,3-d]pyrimidine,
 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-piperidino- 7131-87-5,
 Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dimorpholino-
 7131-88-6, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-
 (4-methyl-1-piperazinyl)-2-piperidino- 7131-89-7, Pyrido[4,3-

d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-bis(4-methyl-1-piperazinyl)- 7131-90-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7131-91-1, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-bis(4-methyl-1-piperazinyl)- 7131-92-2, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino- 7131-93-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino-6-phenethyl- 7131-94-4, Pyrido[4,3-d]pyrimidine, 2-amino-5,6,7,8-tetrahydro-6,8-dimethyl-4-piperidino- 7131-95-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-morpholino- 7131-96-6, Pyrido[4,3-d]pyrimidine, 6-allyl-5,6,7,8-tetrahydro-2-methyl-4-morpholino- 7131-97-7, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-4-(hexylamino)-5,6,7,8-tetrahydro-6-isobutyl-, maleate (1:1) 7131-98-8, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-propyl-4-(1-pyrrolidinyl)- 7131-99-9, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-00-5, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-6-hexyl-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-01-6, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-phenethyl-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-02-7, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-phenethyl-4-(1-pyrrolidinyl)- 7132-03-8, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-piperidino-, maleate (1:1) 7132-04-9, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dimethylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-05-0, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dimethylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7132-06-1, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dimethylamino)-5,6,7,8-tetrahydro-4-piperidino- 7132-07-2, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-isobutyl-8-methyl-4-(1-pyrrolidinyl)- 7132-08-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-methyl-6-phenethyl-4-(1-pyrrolidinyl)- 7132-09-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenethyl-2-propyl-4-(1-pyrrolidinyl)- 7132-11-8, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-piperidino- 7132-12-9, Pyrido[4,3-d]pyrimidine, 2-(dimethylamino)-5,6,7,8-tetrahydro-6-phenethyl-4-(1-pyrrolidinyl)- 7132-13-0, Pyrido[4,3-d]pyrimidine, 2,4-diamino-5,6,7,8-tetrahydro-6-phenethyl- 7164-38-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-8-methyl-4-morpholino-2-phenyl-, oxalate 7164-59-2, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2-morpholino-4-piperidino- 7164-60-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-phenyl-4-piperidino- 7183-75-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7183-76-8, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7194-03-8, Pyrido[4,3-d]pyrimidine, 4-amino-6-[3-(diethylamino)propyl]-5,6,7,8-tetrahydro-2-phenyl- 7194-05-0, Pyrido[4,3-d]pyrimidine, 4-(hexylamino)-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-phenethyl- 7194-06-1, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(hexylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7194-07-2, Pyrido[4,3-d]pyrimidine, 2-(hexylamino)-5,6,7,8-tetrahydro-6-isobutyl-4-(1-pyrrolidinyl)- 7197-26-4, Pyrido[4,3-d]pyrimidine, 4-amino-5,6,7,8-tetrahydro-2,6,8-trimethyl- 7197-27-5, Pyrido[4,3-d]pyrimidine, 4-amino-6-[2-(diethylamino)ethyl]-5,6,7,8-tetrahydro-2-phenyl- 7211-94-1, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-6-hexyl-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7211-96-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)-4-piperidino- 7211-97-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-morpholino-4-piperidino- 7211-98-5, Pyrido[4,3-d]pyrimidine, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-morpholino-4-piperidino- 7211-99-6, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2-(4-

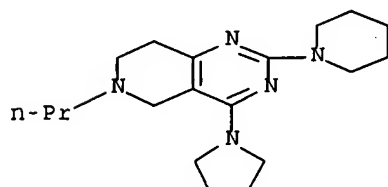
methyl-1-piperazinyl)-4-morpholino- 7212-00-2, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-bis(4-methyl-1-piperazinyl)- 7212-01-3, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino- 7212-02-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-bis(4-methyl-1-piperazinyl)-6-phenyl- 7212-03-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-6-phenyl-2-piperidino- 7212-04-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino-6-phenyl- 7212-05-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7212-06-8, Pyrido[4,3-d]pyrimidine, 6-allyl-5,6,7,8-tetrahydro-2,4-dimorpholino- 7212-07-9, Pyrido[4,3-d]pyrimidine, 6-allyl-2-(dimethylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7228-03-7, Pyrido[4,3-d]pyrimidine, 2-butyl-5,6,7,8-tetrahydro-4-piperidino-6-propyl-, dihydrochloride 7229-54-1, Pyrido[4,3-d]pyrimidine, 6-benzyl-4-(hexylamino)-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)- 10530-83-3, Pyrido[4,3-d]pyrimidine, 2-butyl-5,6,7,8-tetrahydro-6-phenethyl-4-piperidino- 10535-39-4, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2-morpholino-4-piperidino- (preparation of)

- IT 7128-30-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-2,4-di-1-pyrrolidinyl- 7128-31-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-pyrrolidinyl)- 7128-34-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7128-37-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-pyrrolidinyl- 7128-38-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)- 7128-46-3, Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7128-49-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-pyrrolidinyl)- 7128-50-9, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl- 7131-72-8, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-pyrrolidinyl)- 7131-73-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-77-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenyl-2,4-dipiperidino- 7131-80-8, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-83-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-piperidino- 7131-85-3, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-(1-pyrrolidinyl)- 7131-86-4, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-piperidino- 7131-88-6, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-piperidino- 7131-90-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7183-75-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7212-03-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-6-phenyl-2-piperidino- 7212-05-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- (preparation of)
- RN 7128-30-5 HCAPLUS
- CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



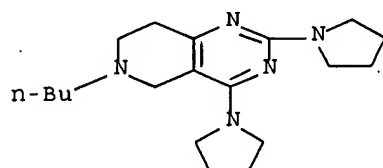
RN 7128-31-6 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



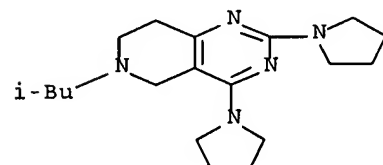
RN 7128-34-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



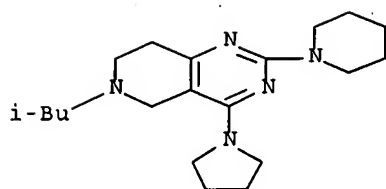
RN 7128-37-2 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



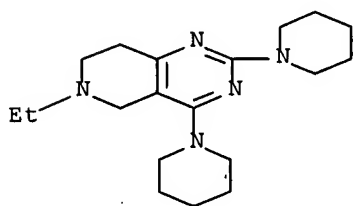
RN 7128-38-3 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



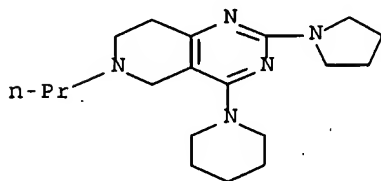
RN 7128-46-3 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
(7CI, 8CI) (CA INDEX NAME)



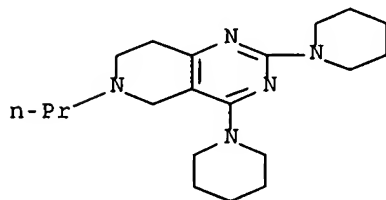
RN 7128-49-6 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-
pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



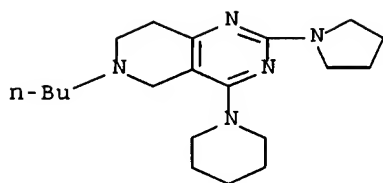
RN 7128-50-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl-
(7CI, 8CI) (CA INDEX NAME)



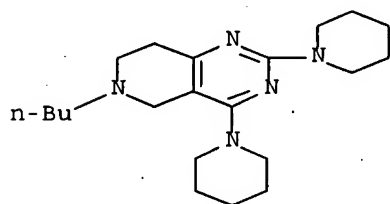
RN 7131-72-8 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-
pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



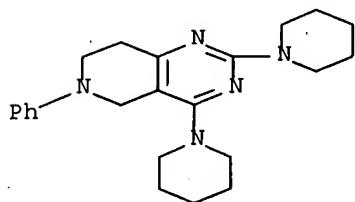
RN 7131-73-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
(7CI, 8CI) (CA INDEX NAME)



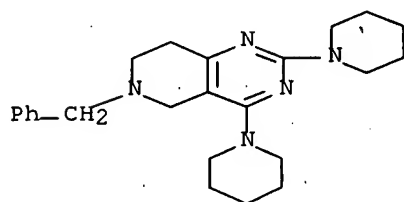
RN 7131-77-3 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenyl-2,4-dipiperidino-
(7CI, 8CI) (CA INDEX NAME)



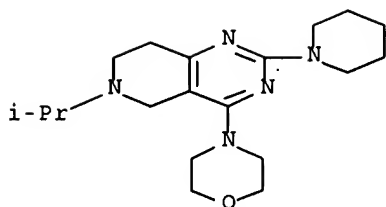
RN 7131-80-8 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
(7CI, 8CI) (CA INDEX NAME)



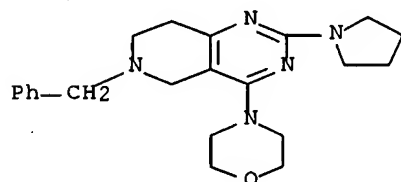
RN 7131-83-1 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-
piperidino- (7CI, 8CI) (CA INDEX NAME)



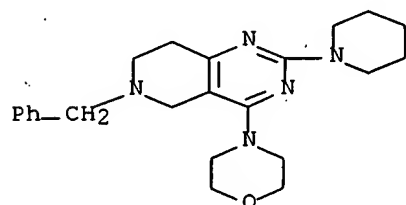
RN 7131-85-3 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



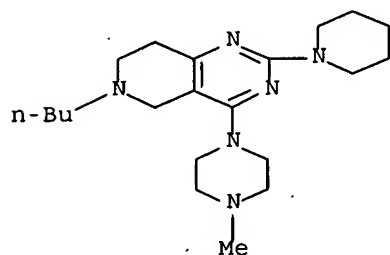
RN 7131-86-4 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-piperidino- (7CI, 8CI) (CA INDEX NAME)



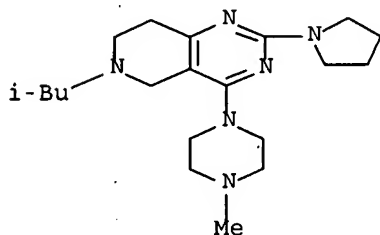
RN 7131-88-6 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-piperidino- (7CI, 8CI) (CA INDEX NAME)



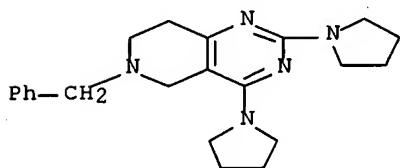
RN 7131-90-0 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



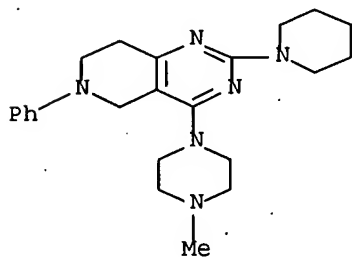
RN 7183-75-7 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



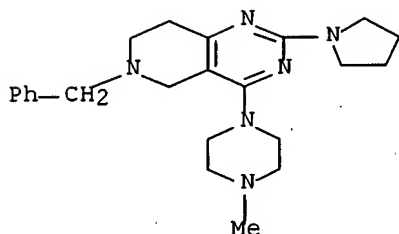
RN 7212-03-5 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-6-phenyl-2-piperidino- (7CI, 8CI) (CA INDEX NAME)



RN 7212-05-7 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



L42 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1964:454890 HCAPLUS Full-text
 DOCUMENT NUMBER: 61:54890
 ORIGINAL REFERENCE NO.: 61:9508c-e
 TITLE: Pyrimidines
 PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
 SOURCE: 15 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M2450		19640504	FR	
DE 1197466			DE	
GB 1033384			GB	
PRIORITY APPLN. INFO.:			DE	19620322

OTHER SOURCE(S): MARPAT 61:54890

ED Entered STN: 22 Apr 2001

GI For diagram(s), see printed CA Issue.

AB Substituted pyrimidines were prepared and their physiol. activity compared, and examples of pharmaceutical preps. given. Thus, 5.5 g. crude 2,6,8-trimethyl-4-chloro-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine was heated with 100 ml. 14% ammonia in MeOH in a stainless steel bomb for 24 hrs. at 100°. After removal of the MeOH in vacuo and dissolving in water, the product is extracted with CHCl₃ and recrystd. from AcOEt to yield 2 g. I (R = 8-Me, R₁ = R₂ = Me, R₃ = NH₂), m. 186-7°. A table gives 93 compds. of general formula I, where R is H or Me, R₁ is an alkyl or aryl group, which may contain an NH₂ or alkoxy group, R₂ is a H, alkyl, or aryl group, free or substituted NH₂ group, and R₃ is a free or substituted amino group. A table gives the effect of four compds. on diminution of edema due to the action of formalin on rats' paws and toxicity towards mice.

IC A61K; C07D

CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))

IT 4345-00-0, Barbituric acid, 5-ethyl-5-phenyl-, compound with 2-(diethylamino)ethyl p-aminobenzoate (1:1) 4345-00-0, Benzoic acid, p-amino-, 2-(diethylamino)ethyl ester, compound with 5-ethyl-5-phenylbarbituric acid (1:1) 7128-25-8, Pyrido[4,3-d]pyrimidine, 2-benzyl-5,6,7,8-tetrahydro-6,8-dimethyl-4-morpholino- 7128-27-0, Pyrido[4,3-d]pyrimidine, 6-benzyl-4-hydrazino-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)- 7128-28-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-methyl-2-morpholino-4-(1-pyrrolidinyl)- 7128-29-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-propyl-4-(1-pyrrolidinyl)- 7128-30-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-2,4-di-1-pyrrolidinyl- 7128-31-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-

pyrrolidinyl)- 7128-32-7, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-propyl-4-(1-pyrrolidinyl)- 7128-33-8, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-(1-pyrrolidinyl)- **7128-34-9**, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7128-35-0, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-isobutyl-4-(1-pyrrolidinyl)- 7128-36-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)-4-(1-pyrrolidinyl)- **7128-37-2**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-pyrrolidinyl- **7128-38-3**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)- 7128-39-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-morpholino-4-(1-pyrrolidinyl)- 7128-40-7, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-phenyl-4-(1-pyrrolidinyl)- 7128-41-8, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-phenyl-4-(1-pyrrolidinyl)- 7128-42-9, Pyrido[4,3-d]pyrimidine, 6-benzyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7128-43-0, Pyrido[4,3-d]pyrimidine, 2-anilino-6-benzyl-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)- 7128-44-1, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-(1-pyrrolidinyl)- 7128-45-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-methyl-2-morpholino-4-piperidino- **7128-46-3**, Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7128-47-4, Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2-morpholino-4-piperidino- 7128-48-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-piperidino-6-propyl- **7128-49-6**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-pyrrolidinyl)- **7128-50-9**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl- 7131-70-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-4-piperidino-6-propyl- 7131-71-7, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-piperidino- **7131-72-8**, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-pyrrolidinyl)- **7131-73-9**, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-74-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)-4-piperidino-, maleate (1:2) **7131-75-1**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-piperidino-2-(1-pyrrolidinyl)- 7131-76-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-phenyl-4-piperidino- **7131-77-3**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenyl-2,4-dipiperidino- 7131-79-5, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-4-piperidino- **7131-80-8**, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-81-9, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-phenethyl-4-piperidino- 7131-82-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dimorpholino-6-propyl- **7131-83-1**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-piperidino- 7131-84-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)-4-morpholino- **7131-85-3**, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-(1-pyrrolidinyl)- **7131-86-4**, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-piperidino- 7131-87-5, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dimorpholino- **7131-88-6**, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-piperidino- 7131-89-7, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-bis(4-methyl-1-piperazinyl)- **7131-90-0**, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7131-91-1, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-

tetrahydro-2,4-bis(4-methyl-1-piperazinyl)- 7131-92-2,
 Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-
 piperazinyl)-2-morpholino- 7131-93-3, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino-6-phenethyl-
 7131-95-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-
 methyl-1-piperazinyl)-2-morpholino- 7131-96-6, Pyrido[4,3-d]pyrimidine,
 6-allyl-5,6,7,8-tetrahydro-2-methyl-4-morpholino- 7131-97-7,
 Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-4-(hexylamino)-5,6,7,8-
 tetrahydro-6-isobutyl-, maleate (1:1) 7131-98-8, Pyrido[4,3-
 d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-propyl-4-(1-
 pyrrolidinyl)- 7131-99-9, Pyrido[4,3-d]pyrimidine, 6-butyl-2-
 (dibutylamino)-5,6,7,8-tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1)
 7132-00-5, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-6-hexyl-5,6,7,8-
 tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-01-6,
 Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-tetrahydro-6-phenethyl-4-
 (1-pyrrolidinyl)-, maleate (1:1) 7132-03-8, Pyrido[4,3-d]pyrimidine,
 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-piperidino-, maleate (1:1)
 7132-04-9, Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dimethylamino)-5,6,7,8-
 tetrahydro-4-(1-pyrrolidinyl)-, maleate (1:1) 7132-06-1,
 Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dimethylamino)-5,6,7,8-tetrahydro-4-
 piperidino- 7132-07-2, Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-5,6,7,8-
 tetrahydro-6-isobutyl-8-methyl-4-(1-pyrrolidinyl)- 7132-08-3,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-methyl-6-phenethyl-4-(1-
 pyrrolidinyl)- 7132-09-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-
 phenethyl-2-propyl-4-(1-pyrrolidinyl)- 7132-12-9, Pyrido[4,3-
 d]pyrimidine, 2-(dimethylamino)-5,6,7,8-tetrahydro-6-phenethyl-4-(1-
 pyrrolidinyl)- 7132-13-0, Pyrido[4,3-d]pyrimidine, 2,4-diamino-5,6,7,8-
 tetrahydro-6-phenethyl- 7164-59-2, Pyrido[4,3-d]pyrimidine,
 6-butyl-5,6,7,8-tetrahydro-2-morpholino-4-piperidino- 7164-60-5,
 Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-morpholino-6-phenyl-4-
 piperidino- 7183-75-7, Pyrido[4,3-d]pyrimidine,
 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7183-76-8,
 Pyrido[4,3-d]pyrimidine, 6-butyl-2-(dibutylamino)-5,6,7,8-tetrahydro-4-(1-
 pyrrolidinyl)- 7194-03-8, Pyrido[4,3-d]pyrimidine, 4-amino-6-[3-
 (diethylamino)propyl]-5,6,7,8-tetrahydro-2-phenyl- 7194-05-0,
 Pyrido[4,3-d]pyrimidine, 4-(hexylamino)-5,6,7,8-tetrahydro-2-(4-methyl-1-
 piperazinyl)-6-phenethyl- 7194-06-1, Pyrido[4,3-d]pyrimidine,
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 Pyrido[4,3-d]pyrimidine, 2-(hexylamino)-5,6,7,8-tetrahydro-6-isobutyl-4-(1-
 pyrrolidinyl)- 7197-26-4, Pyrido[4,3-d]pyrimidine, 4-amino-5,6,7,8-
 tetrahydro-2,6,8-trimethyl- 7197-27-5, Pyrido[4,3-d]pyrimidine,
 4-amino-6-[2-(diethylamino)ethyl]-5,6,7,8-tetrahydro-2-phenyl- 7211-94-1
 , Pyrido[4,3-d]pyrimidine, 2-(dibutylamino)-6-hexyl-5,6,7,8-tetrahydro-4-
 (1-pyrrolidinyl)- 7211-96-3, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)-4-piperidino-
 7211-97-4, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-
 morpholino-4-piperidino- 7211-98-5, Pyrido[4,3-d]pyrimidine,
 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-morpholino-4-piperidino-
 7211-99-6, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2-(4-
 methyl-1-piperazinyl)-4-morpholino- 7212-00-2, Pyrido[4,3-d]pyrimidine,
 6-butyl-5,6,7,8-tetrahydro-2,4-bis(4-methyl-1-piperazinyl)- 7212-01-3,
 Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-
 piperazinyl)-2-morpholino- 7212-02-4, Pyrido[4,3-d]pyrimidine,
 5,6,7,8-tetrahydro-2,4-bis(4-methyl-1-piperazinyl)-6-phenyl-
 7212-03-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-
 1-piperazinyl)-6-phenyl-2-piperidino- 7212-04-6, Pyrido[4,3-
 d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-morpholino-6-
 phenyl- 7212-05-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-
 tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7212-06-8,
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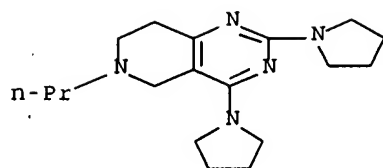
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(preparation of)

IT 7128-30-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-2,4-di-1-pyrrolidinyl- 7128-31-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-pyrrolidinyl)- 7128-34-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7128-37-2, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-pyrrolidinyl- 7128-38-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)- 7128-46-3, Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7128-49-6, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-pyrrolidinyl)- 7128-50-9, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl- 7131-72-8, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-pyrrolidinyl)- 7131-73-9, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-75-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-piperidino-2-(1-pyrrolidinyl)- 7131-77-3, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-phenyl-2,4-dipiperidino- 7131-80-8, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino- 7131-83-1, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-piperidino- 7131-85-3, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-(1-pyrrolidinyl)- 7131-86-4, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-morpholino-2-piperidino- 7131-88-6, Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-piperidino- 7131-90-0, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- 7183-75-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- 7212-03-5, Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-6-phenyl-2-piperidino- 7212-05-7, Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- (preparation of)

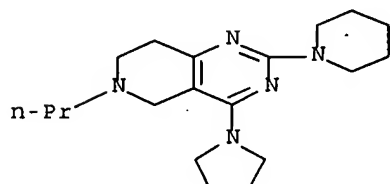
RN 7128-30-5 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-propyl-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



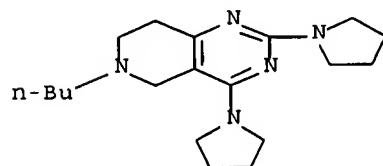
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CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2-piperidino-6-propyl-4-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



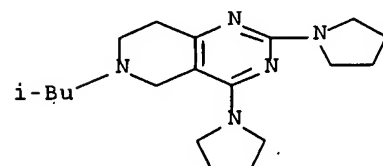
RN 7128-34-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



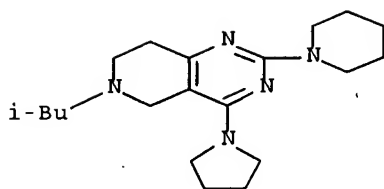
RN 7128-37-2 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



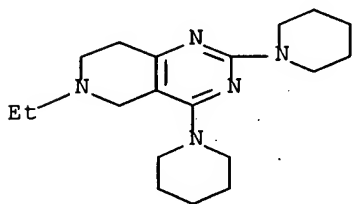
RN 7128-38-3 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-2-piperidino-4-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



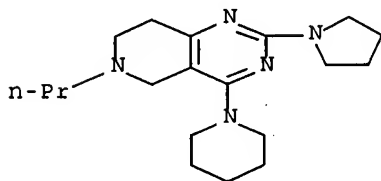
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CN Pyrido[4,3-d]pyrimidine, 6-ethyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
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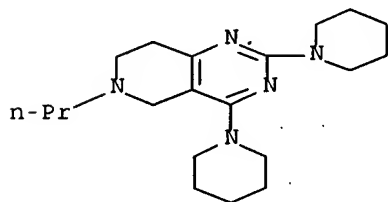
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CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-piperidino-6-propyl-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



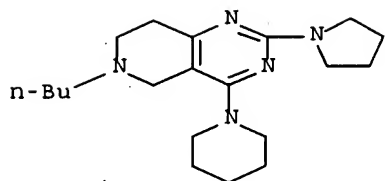
RN 7128-50-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-2,4-dipiperidino-6-propyl-
(7CI, 8CI) (CA INDEX NAME)



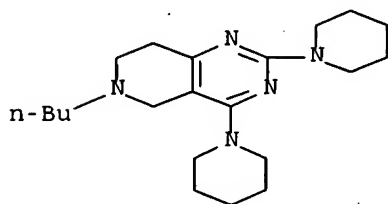
RN 7131-72-8 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-4-piperidino-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



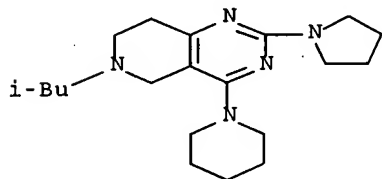
RN 7131-73-9 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-butyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
(7CI, 8CI) (CA INDEX NAME)



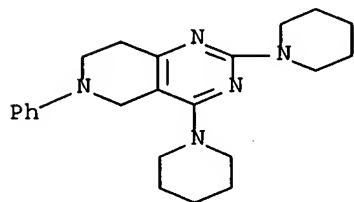
RN 7131-75-1 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isobutyl-4-piperidino-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



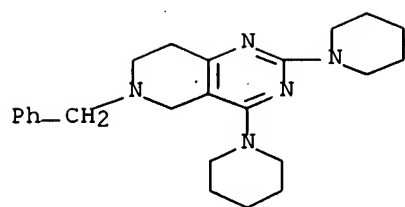
RN 7131-77-3 HCAPLUS

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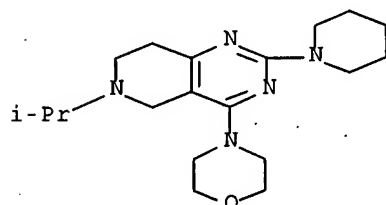
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CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-dipiperidino-
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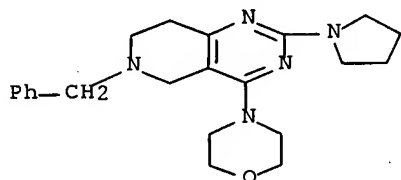
RN 7131-83-1 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-6-isopropyl-4-morpholino-2-piperidino- (7CI, 8CI) (CA INDEX NAME)



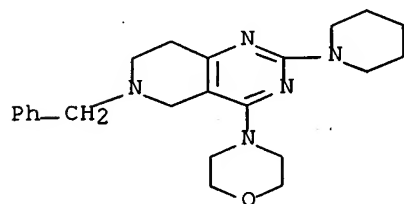
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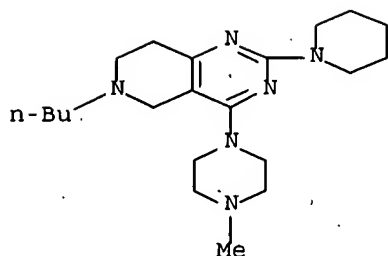
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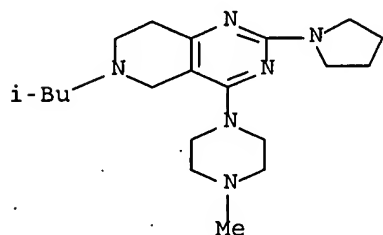
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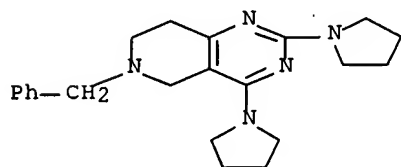
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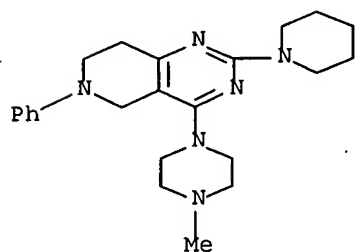
RN 7183-75-7 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-2,4-di-1-pyrrolidinyl- (7CI, 8CI) (CA INDEX NAME)



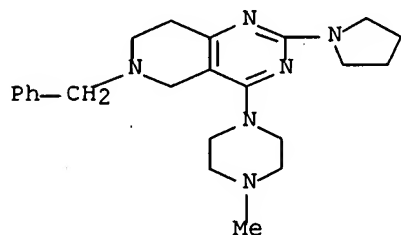
RN 7212-03-5 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-6-phenyl-2-piperidino- (7CI, 8CI) (CA INDEX NAME)



RN 7212-05-7 HCAPLUS

CN Pyrido[4,3-d]pyrimidine, 6-benzyl-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-(1-pyrrolidinyl)- (7CI, 8CI) (CA INDEX NAME)



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RN 854588-34-4 REGISTRY

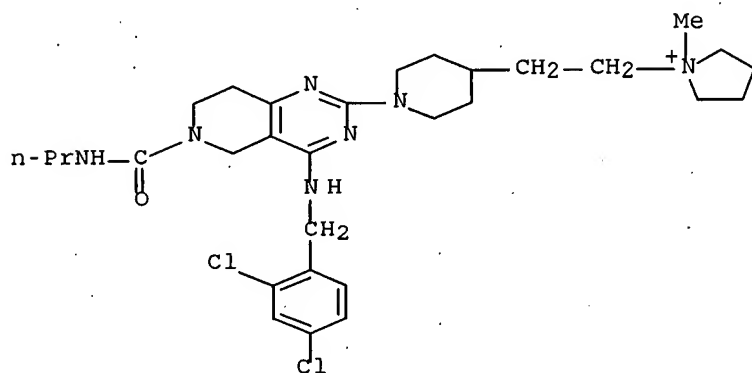
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CN Pyrrolidinium, 1-[2-[1-[4-[[[(2,4-dichlorophenyl)methyl]amino]-5,6,7,8-
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piperidinyl]ethyl]-1-methyl- (9CI) (CA INDEX NAME)

MF C30 H44 Cl2 N7 O

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SR CA



L44 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN

RN 854588-33-3 REGISTRY

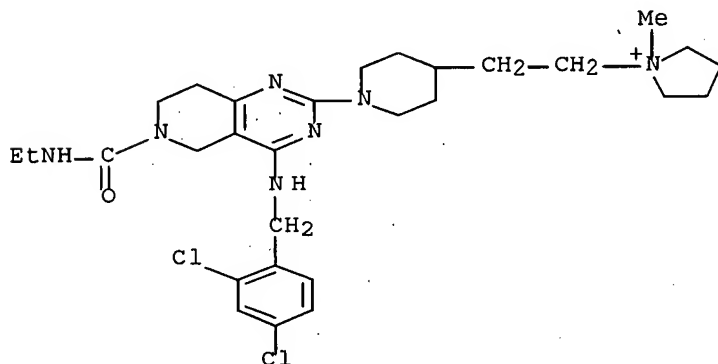
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CN Pyrrolidinium, 1-[2-[1-[4-[[[(2,4-dichlorophenyl)methyl]amino]-6-
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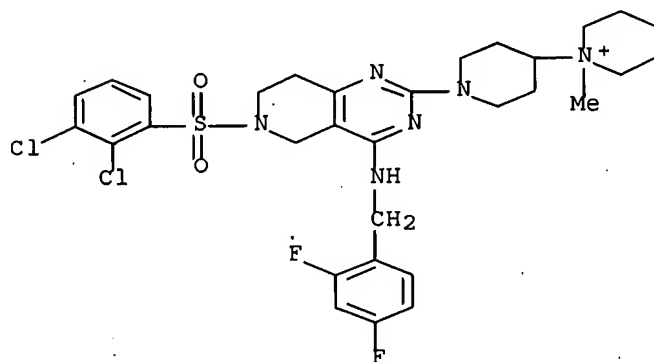
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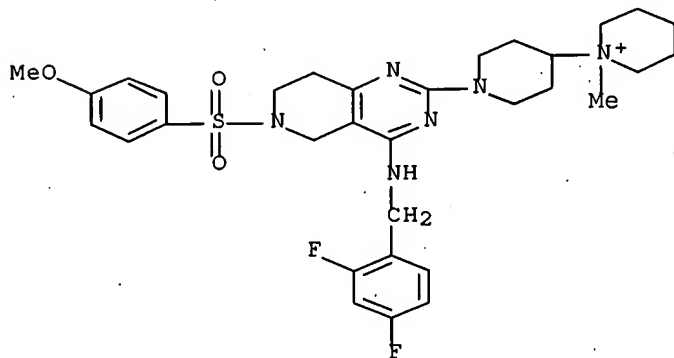
SR CA



L44 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 854588-32-2 REGISTRY
 ED Entered STN: 12 Jul 2005
 CN 1,4'-Bipiperidinium, 1'-[6-[(2,3-dichlorophenyl)sulfonyl]-4-[[2,4-difluorophenyl)methyl]amino]-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]-1-methyl- (9CI) (CA INDEX NAME)
 MF C31 H37 Cl2 F2 N6 O2 S
 CI COM
 SR CA

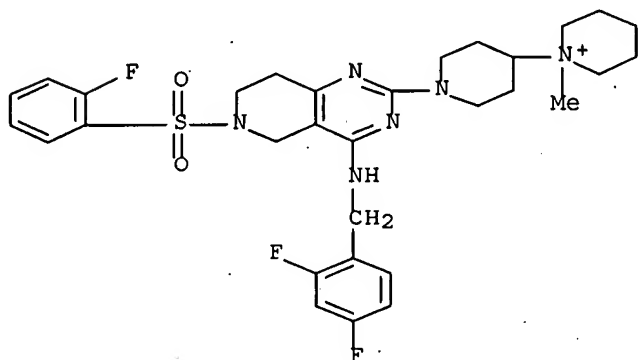


L44 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 854588-31-1 REGISTRY
 ED Entered STN: 12 Jul 2005
 CN 1,4'-Bipiperidinium, 1'-[4-[[2,4-difluorophenyl)methyl]amino]-5,6,7,8-tetrahydro-6-[(4-methoxyphenyl)sulfonyl]pyrido[4,3-d]pyrimidin-2-yl]-1-methyl- (9CI) (CA INDEX NAME)
 MF C32 H41 F2 N6 O3 S
 CI COM
 SR CA

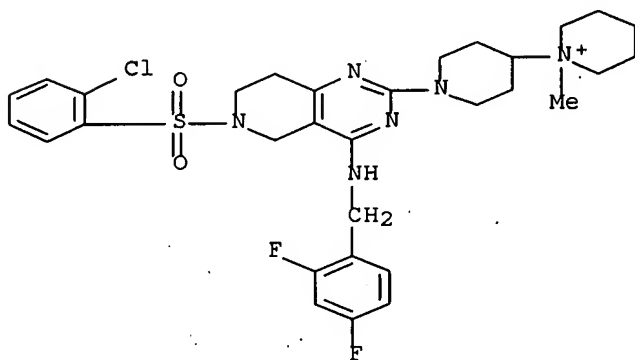


L44 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN

RN 854588-30-0 REGISTRY
 ED Entered STN: 12 Jul 2005
 CN 1,4'-Bipiperidinium, 1'-[4-[[[(2,4-difluorophenyl)methyl]amino]-6-[(2-fluorophenyl)sulfonyl]-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]-1-methyl- (9CI) (CA INDEX NAME)
 MF C31 H38 F3 N6 O2 S
 CI COM
 SR CA

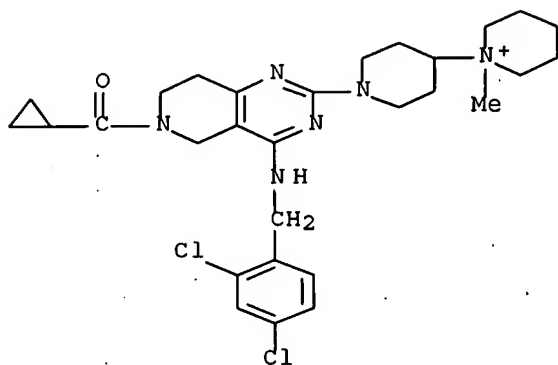


L44 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 854588-29-7 REGISTRY
 ED Entered STN: 12 Jul 2005
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 MF C31 H38 Cl F2 N6 O2 S
 CI COM
 SR CA



L44 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 773847-31-7 REGISTRY
 ED Entered STN: 02 Nov 2004
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yl]-1-methyl- (9CI) (CA INDEX NAME)
 MF C29 H39 Cl2 N6 O
 CI COM
 SR CA



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